

Title (en)

ANALYZER DEVICE FOR COMPENSATING A SCINTILLATOR AND METHOD OF USING THE SAME

Title (de)

ANALYSATOR ZUR KOMPENSATION EINES SZINTILLATORS UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)

DISPOSITIF ANALYSEUR PERMETTANT DE COMPENSER UN SCINTILLATEUR ET SON PROCÉDÉ D'UTILISATION

Publication

EP 3049828 A4 20170607 (EN)

Application

EP 14849251 A 20140922

Priority

- US 201361883703 P 20130927
- US 2014056744 W 20140922

Abstract (en)

[origin: US2015090888A1] A radiation detection system can include a scintillator capable of emitting scintillating light in response to capturing radiation, a photosensor optically coupled to the scintillator, and an analyzer device electrically coupled to the photosensor. The analyzer device can include a plurality of circuits and can be configured to receive a pulse from the photosensor, analyze a pulse shape of the pulse, and adjust a pulse parameter based on the pulse shape, wherein the plurality of circuits is configured to perform the analysis of the pulse or the adjustment of the pulse. In an embodiment, the analyzer device can determine a rise time of the pulse, an integration of intensity over time, a pulse height of the pulse, a depth-of-interaction, or any combination thereof. In a further embodiment, the analyzer device can generate a compensation coefficient based on the rise time of the pulse to adjust the pulse height.

IPC 8 full level

G01T 1/20 (2006.01); **G01T 7/00** (2006.01)

CPC (source: EP US)

G01T 1/20 (2013.01 - EP US)

Citation (search report)

- [XYI] GB 2316744 A 19980304 - SCHLUMBERGER LTD [US]
- [X] WO 2011081892 A2 20110707 - SAINT GOBAIN CERAMICS
- [Y] WO 2013101956 A1 20130704 - UNIV LELAND STANFORD JUNIOR [US]
- [A] US 6781134 B1 20040824 - MURRAY WILLIAM S [US], et al
- See references of WO 2015047935A1

Designated contracting state (EPC)

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